

L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

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TITLE: Solid- and solution-phase combinatorial
libraries synthesis of heparin and other
glycosaminoglycans as potential receptorsINVENTOR(S): Seeberger, Peter H.; Orgueira,
Hernan; Schell, Peter

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

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INT. PATENT CLASSIF.:

MAIN: A61K

CLASSIFICATION: 33-8 (Carbohydrates)

Section cross-reference(s): 1, 3

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058633	A2	20020801	WO 2002-US1772	20020122
WO 2002058633	A3	20021017		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003013862	A1	20030116	US 2002-54724	20020122
EP 1353556	A2	20031022	EP 2002-709129	20020122
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRIORITY APPLN. INFO.:			US 2001-263621P	P 20010123
			WO 2002-US1772	W 20020122

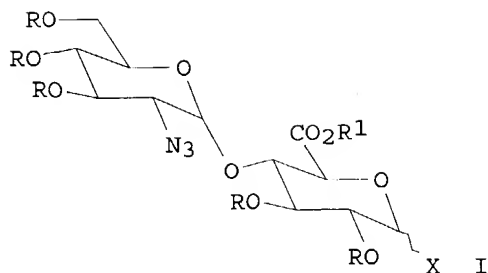
PATENT CLASSIFICATION CODES:

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

WO 2002058633 ICM A61K

OTHER SOURCE(S): MARPAT 137:125357

GRAPHIC IMAGE:



ABSTRACT:

Described is a modular, general synthetic strategy for the preparation in solution and

on a solid support of heparin, heparin-like glycosaminoglycans, glycosaminoglycans and non-natural analogs, e.g. I, wherein X is OH, acyloxy, silyloxy, halide, alkylthio, arylthio, alkoxy, OC(NH)CCl₃; R is H, alkyl, aryl, arylalkyl, heteroarylalkyl, silyl, acyl, alkenyloxycarbonyl, aralkyloxycarbonyl; R₁ is H, alkyl, aryl, arylalkyl, heteroarylalkyl and derivs. Addnl., the modular strategy provides the basis for the preparation of combinatorial libraries and parallel libraries of defined glycosaminoglycan oligosaccharides. The defined glycosaminoglycan structures may be used in high-throughput screening expts. to identify carbohydrate sequences that regulate a host of recognition and signal-transduction processes. The determination of

specific sequences involved in receptor binding holds great promise for the development of mol. tools which will allow modulation of processes underlying viral entry, angiogenesis, kidney diseases and diseases of the control nervous system (no data). Notably, the present invention enables the automated synthesis of glycosaminoglycans in much the same fashion that peptides and oligonucleotides are currently assembled. Thus, n-pentenyl (2-deoxy-2-sodium sulfonatamido-3,4,6-tri-O-sodium sulfonato- α -D-glucopyranosyl)-(1 \rightarrow 4)-(sodium 2-O-sodium sulfonato- α -D-idopyranosyluronate)-(1 \rightarrow 4)-(2-deoxy-2-sodium sulfonatamido-6-O-sodium sulfonato- α -D-glucopyranosyl)-(1 \rightarrow 4)-sodium 2-O-sodium sulfonato- β -D-glucopyranosiduronate was prepared as potential receptors.

SUPPL. TERM: solid phase prepn combinatorial glycosaminoglycan oligosaccharide uronate heparin

INDEX TERM: Combinatorial library
Solid phase synthesis

(solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

INDEX TERM: Oligosaccharides, preparation
Receptors

ROLE: CPN (Combinatorial preparation); IMF (Industrial manufacture); SPN (Synthetic preparation); CMBI (Combinatorial study); PREP (Preparation)
(solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

INDEX TERM: 80321-89-7P 87326-73-6P
92955-17-4P 99049-65-7P
120312-09-6P 138889-14-2P
138923-10-1P 154920-34-0P
154970-28-2P 385422-21-9P
385422-22-0P 444118-29-0P
444118-30-3P 444118-31-4P

444118-32-5P 444118-33-6P
444118-34-7P 444118-35-8P
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444119-41-9P

ROLE: IMF (Industrial manufacture); RCT (Reactant); SPN
(Synthetic preparation); PREP (Preparation); RACT (Reactant
or reagent)

(solid-phase combinatorial libraries synthesis of
glycosaminoglycans as potential receptors)

INDEX TERM:

87326-76-9P 444118-43-8P
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444119-21-5P

ROLE: IMF (Industrial manufacture); SPN (Synthetic
preparation); PREP (Preparation)
(solid-phase combinatorial libraries synthesis of
glycosaminoglycans as potential receptors)

INDEX TERM:

56-40-6, Glycine, reactions 66-84-2,
Glucosamine hydrochloride 582-52-5

171032-74-9

ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (solid-phase combinatorial libraries synthesis of
 glycosaminoglycans as potential receptors)

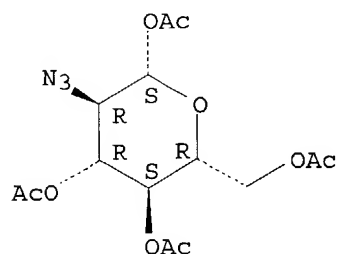
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 444119-41-9P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

RN 80321-89-7 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

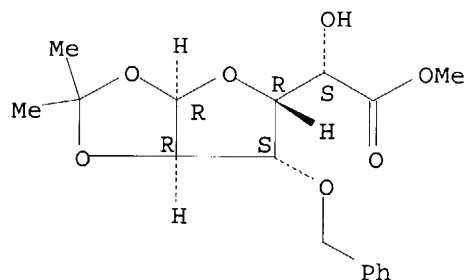
Absolute stereochemistry.



RN 87326-73-6 HCAPLUS

CN α -D-Glucofuranuronic acid, 1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

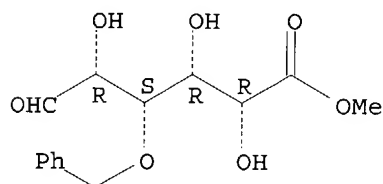
Absolute stereochemistry.



RN 92955-17-4 HCAPLUS

CN L-Iduronic acid, 3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

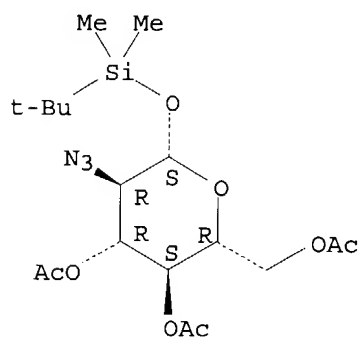
Absolute stereochemistry.



RN 99049-65-7 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,4,6-triacetate (9CI) (CA INDEX NAME)

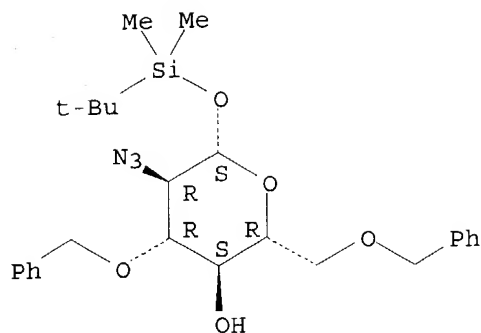
Absolute stereochemistry.



RN 120312-09-6 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

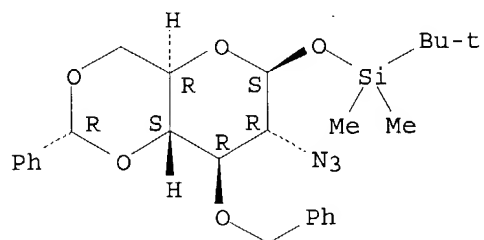
Absolute stereochemistry. Rotation (-).



RN 138889-14-2 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-4,6-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

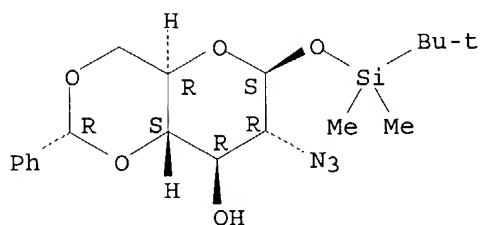
Absolute stereochemistry.



RN 138923-10-1 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-4,6-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

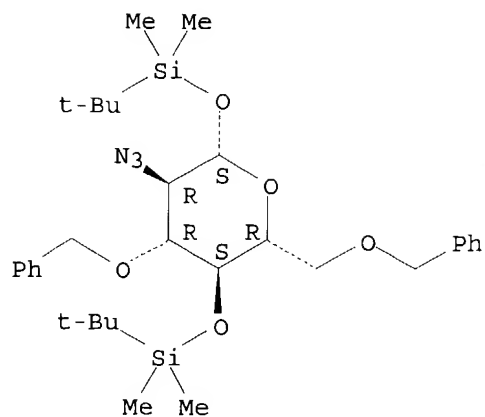
Absolute stereochemistry.



RN 154920-34-0 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1,4-bis-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

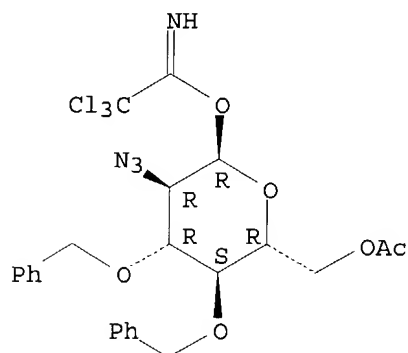
Absolute stereochemistry. Rotation (+).



RN 154970-28-2 HCAPLUS

CN α-D-Glucopyranose, 2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)-, 6-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

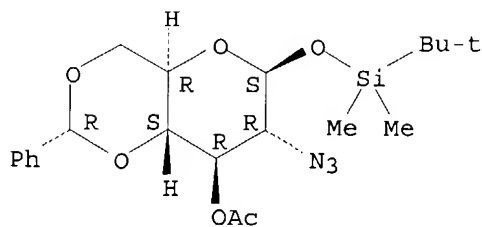
Absolute stereochemistry.



RN 385422-21-9 HCAPLUS

CN β-D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-4,6-O-[(R)-phenylmethylene]-, 3-acetate (9CI) (CA INDEX NAME)

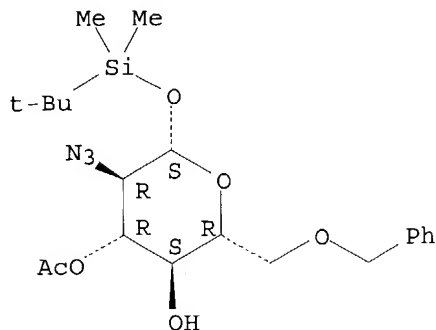
Absolute stereochemistry. Rotation (-).



RN 385422-22-0 HCAPLUS

CN β-D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)-, 3-acetate (9CI) (CA INDEX NAME)

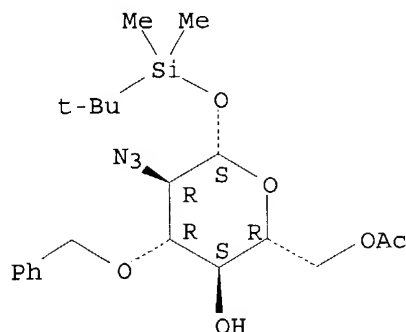
Absolute stereochemistry. Rotation (-).



RN 444118-29-0 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate (9CI) (CA INDEX NAME)

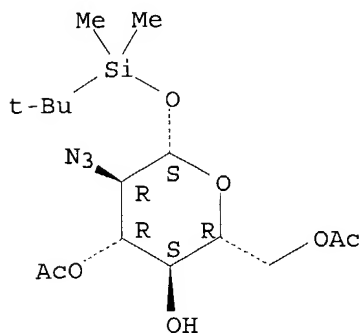
Absolute stereochemistry. Rotation (-).



RN 444118-30-3 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate (9CI) (CA INDEX NAME)

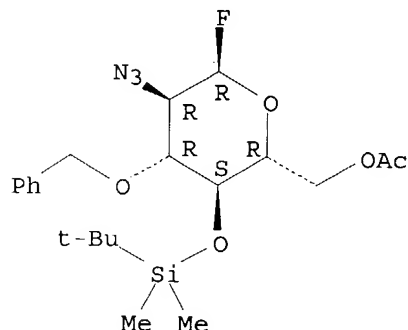
Absolute stereochemistry. Rotation (-).



RN 444118-31-4 HCAPLUS

CN α -D-Glucopyranosyl fluoride, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate (9CI) (CA INDEX NAME)

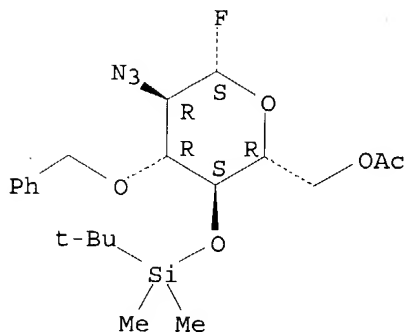
Absolute stereochemistry.



RN 444118-32-5 HCAPLUS

CN β -D-Glucopyranosyl fluoride, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate (9CI) (CA INDEX NAME)

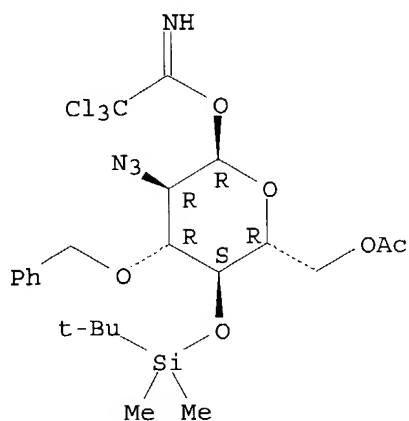
Absolute stereochemistry.



RN 444118-33-6 HCAPLUS

CN α -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

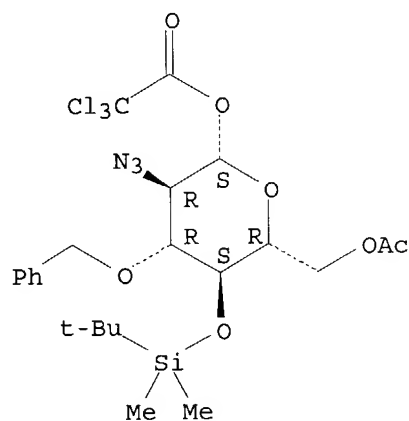
Absolute stereochemistry. Rotation (+).



RN 444118-34-7 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate 1-(trichloroacetate) (9CI) (CA INDEX NAME)

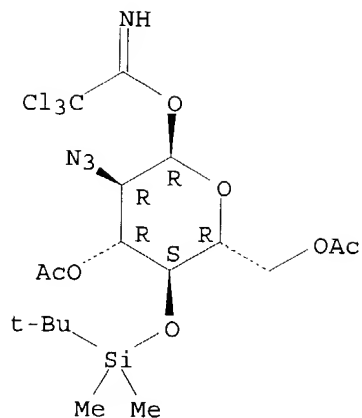
Absolute stereochemistry. Rotation (+).



RN 444118-35-8 HCAPLUS

CN α -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

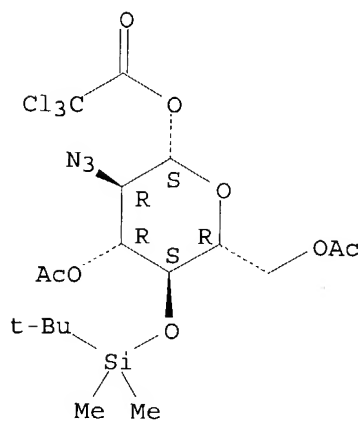
Absolute stereochemistry.



RN 444118-36-9 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate 1-(trichloroacetate) (9CI)
(CA INDEX NAME)

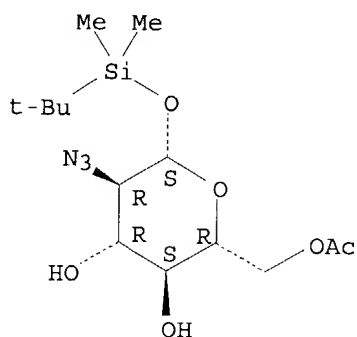
Absolute stereochemistry.



RN 444118-37-0 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 6-acetate (9CI) (CA INDEX NAME)

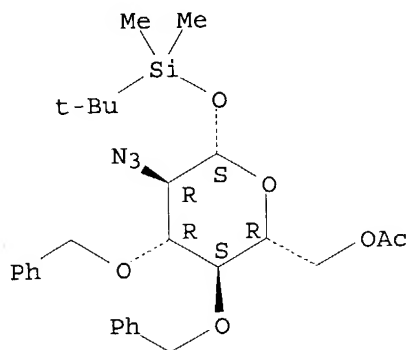
Absolute stereochemistry. Rotation (-).



RN 444118-38-1 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3,4-bis-O-(phenylmethyl)-, 6-acetate (9CI)
(CA INDEX NAME)

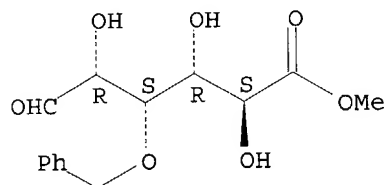
Absolute stereochemistry. Rotation (-).



RN 444118-39-2 HCAPLUS

CN D-Glucuronic acid, 3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

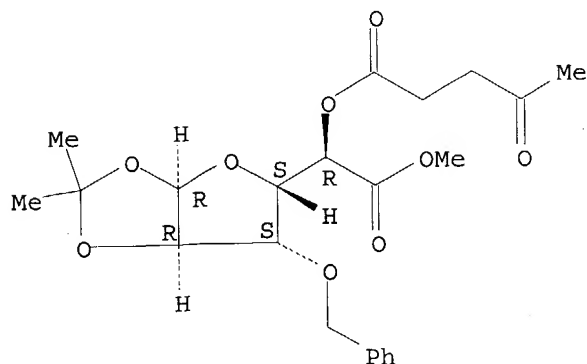
Absolute stereochemistry.



RN 444118-40-5 HCAPLUS

CN β -L-Idofuranuronic acid, 1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester, 4-oxopentanoate (9CI) (CA INDEX NAME)

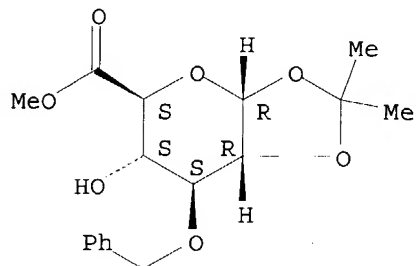
Absolute stereochemistry. Rotation (-).



RN 444118-41-6 HCAPLUS

CN α -D-Glucopyranuronic acid, 1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

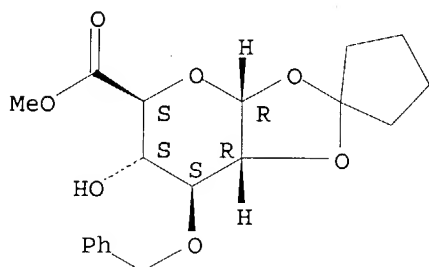
Absolute stereochemistry. Rotation (+).



RN 444118-42-7 HCAPLUS

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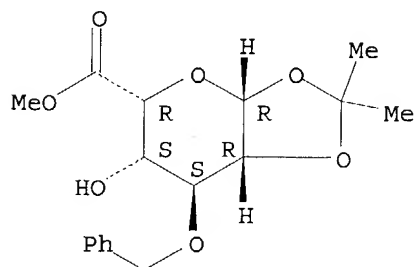
Absolute stereochemistry. Rotation (+).



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CN β -L-Idopyranuronic acid, 1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

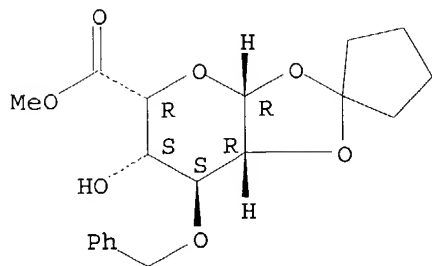
Absolute stereochemistry. Rotation (-).



RN 444118-45-0 HCAPLUS

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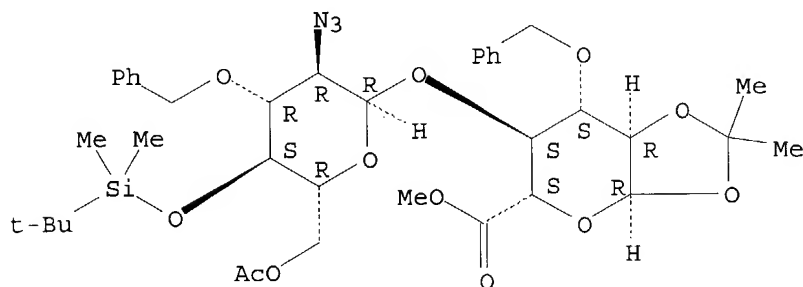
Absolute stereochemistry. Rotation (+).



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CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

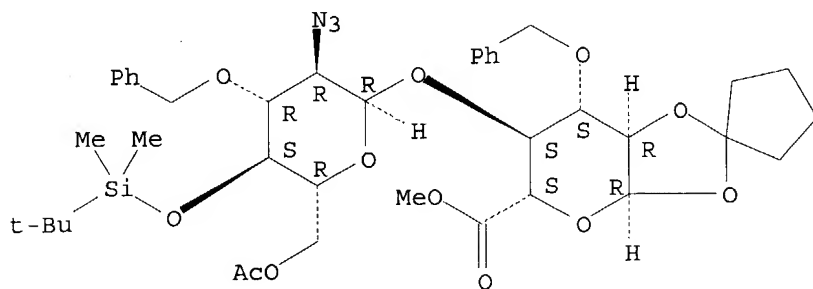
Absolute stereochemistry. Rotation (+).



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CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

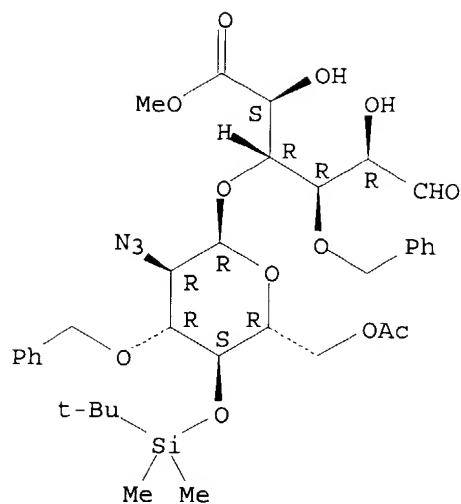
Absolute stereochemistry. Rotation (+).



RN 444118-49-4 HCAPLUS

CN D-Glucuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

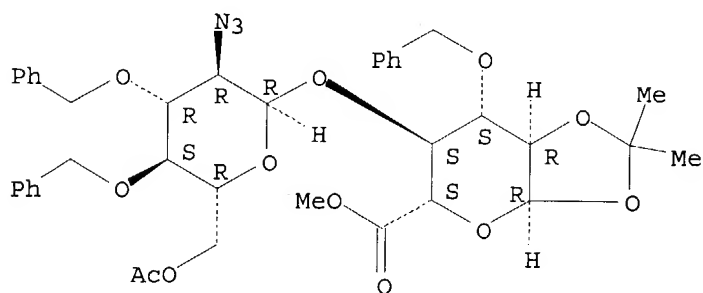
Absolute stereochemistry.



RN 444118-50-7 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

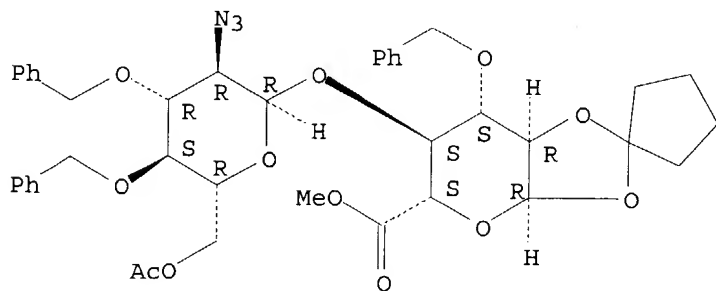
Absolute stereochemistry. Rotation (+).



RN 444118-51-8 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

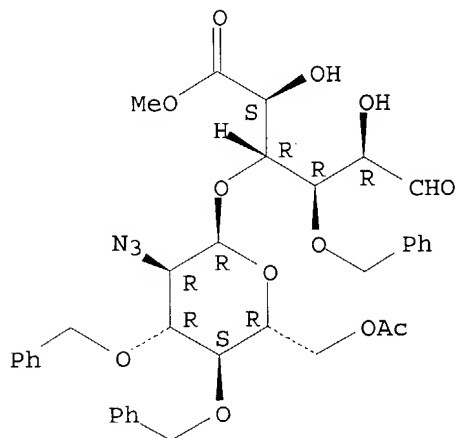
Absolute stereochemistry. Rotation (+).



RN 444118-52-9 HCAPLUS

CN D-Glucuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

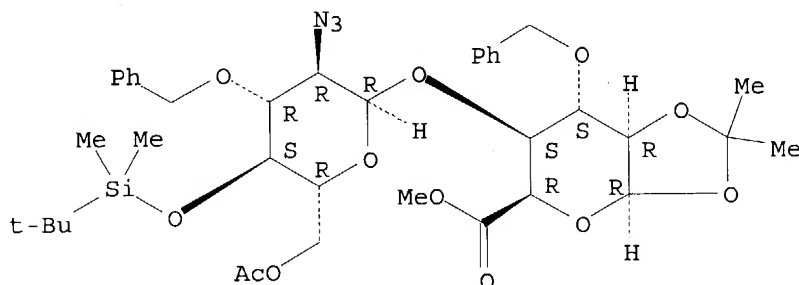
Absolute stereochemistry.



RN 444118-53-0 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

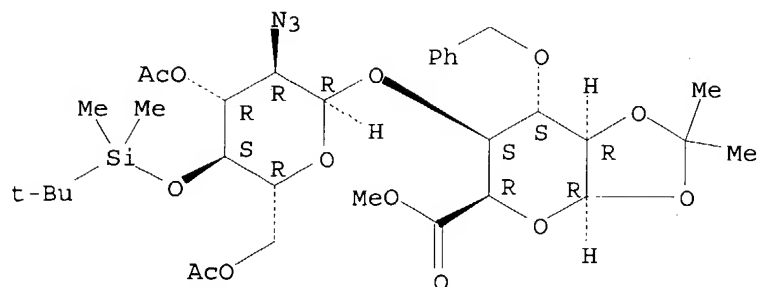
Absolute stereochemistry. Rotation (+).



RN 444118-54-1 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

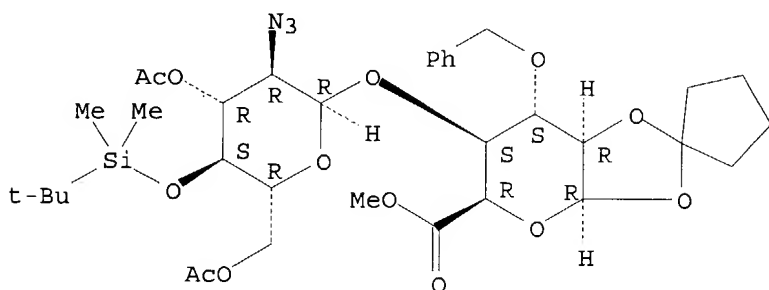
Absolute stereochemistry. Rotation (+).



RN 444118-55-2 HCAPLUS

CN β-L-Idopyranuronic acid, 1,2-O-cyclopentylidene-4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-α-D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

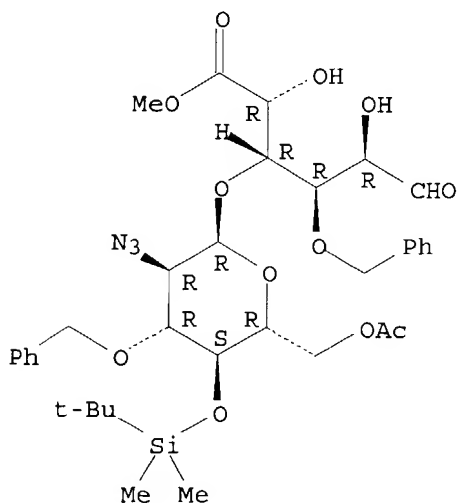
Absolute stereochemistry. Rotation (+).



RN 444118-56-3 HCAPLUS

CN L-Iduronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-α-D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

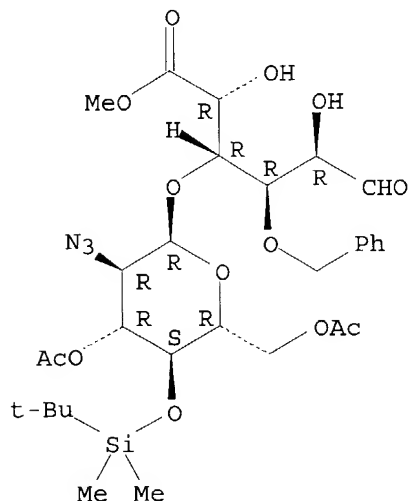
Absolute stereochemistry.



RN 444118-57-4 HCAPLUS

CN L-Iduronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

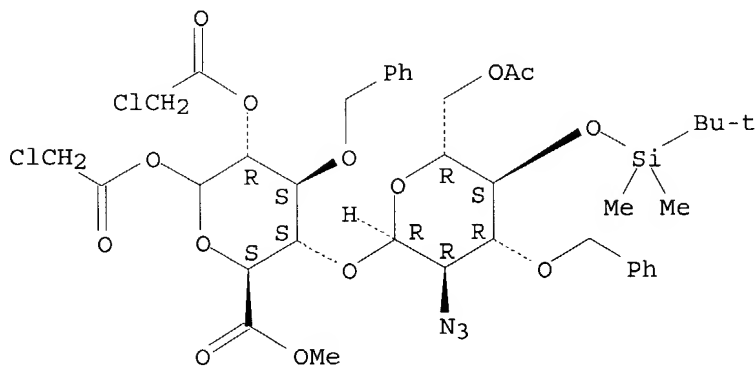
Absolute stereochemistry.



RN 444118-58-5 HCAPLUS

CN D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 1,2-bis(chloroacetate) (9CI) (CA INDEX NAME)

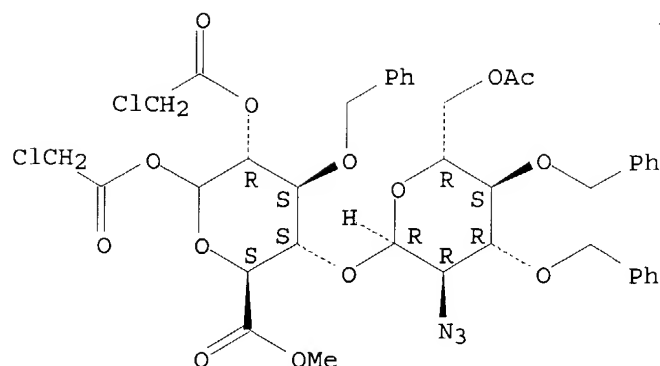
Absolute stereochemistry.



RN 444118-59-6 HCAPLUS

CN D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 1,2-bis(chloroacetate) (9CI) (CA INDEX NAME)

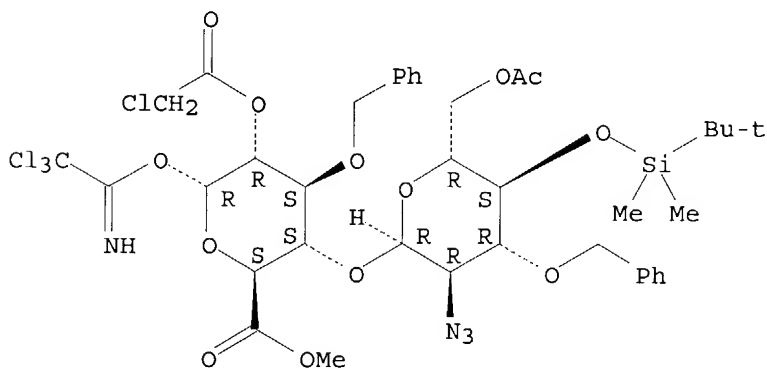
Absolute stereochemistry.



RN 444118-60-9 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

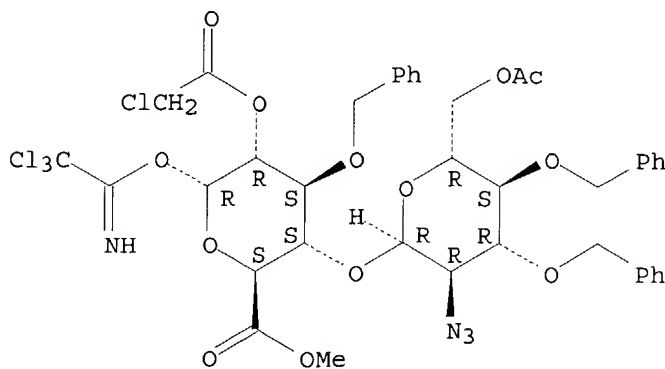
Absolute stereochemistry. Rotation (+).



RN 444118-61-0 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

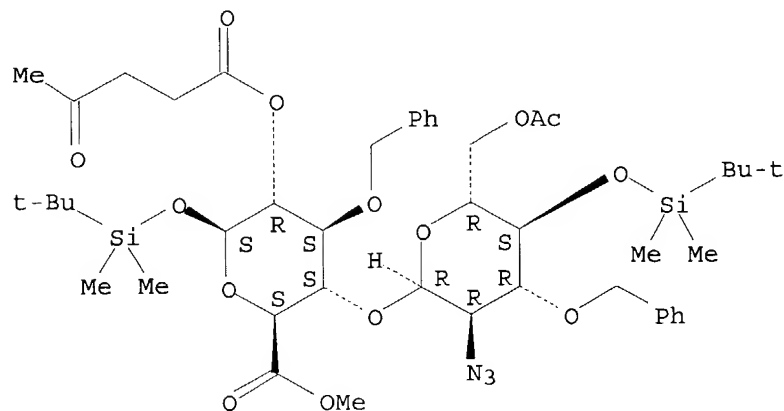
Absolute stereochemistry.



RN 444118-62-1 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

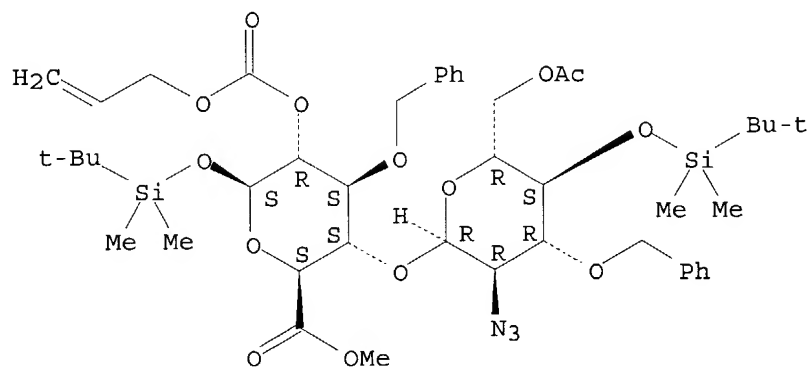
Absolute stereochemistry.



RN 444118-63-2 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) (9CI) (CA INDEX NAME)

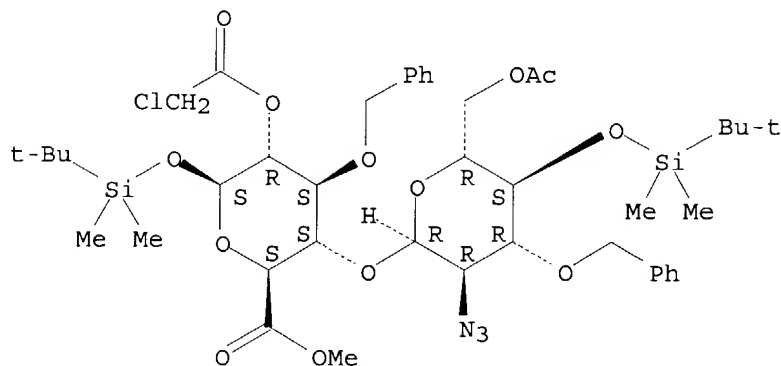
Absolute stereochemistry. Rotation (+).



RN 444118-64-3 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

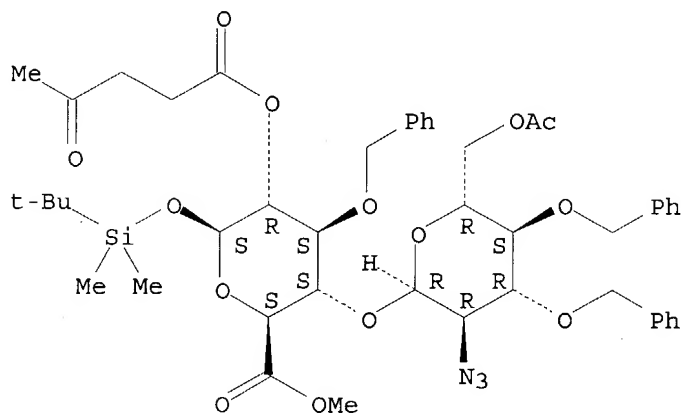
Absolute stereochemistry. Rotation (+).



RN 444118-65-4 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

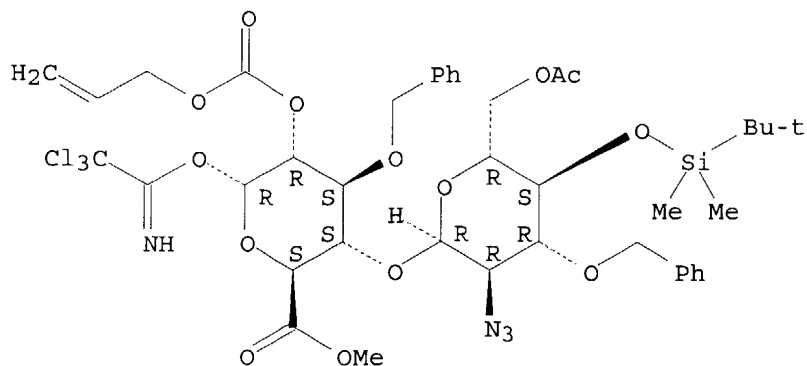
Absolute stereochemistry. Rotation (+).



RN 444118-66-5 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) (9CI) (CA INDEX NAME)

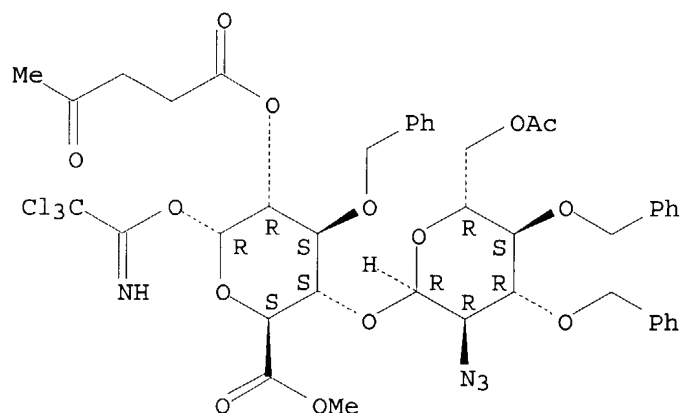
Absolute stereochemistry. Rotation (+).



RN 444118-69-8 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

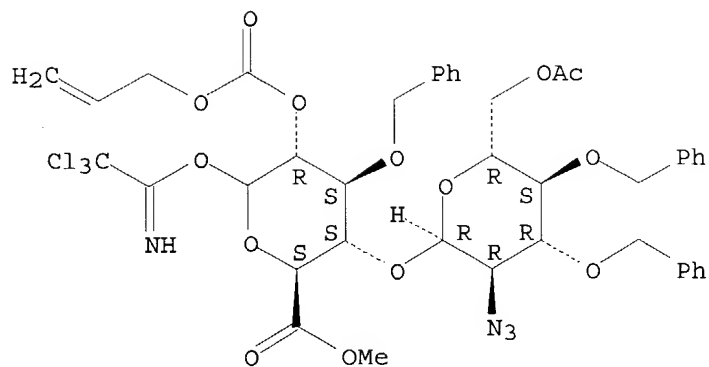
Absolute stereochemistry. Rotation (+).



RN 444118-70-1 HCAPLUS

CN D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

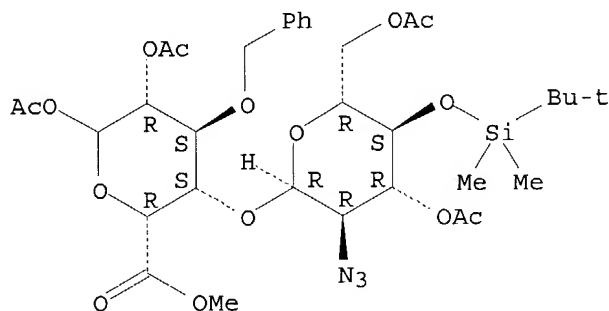
Absolute stereochemistry.



RN 444118-71-2 HCAPLUS

CN L-Idopyranuronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 1,2-diacetate (9CI) (CA INDEX NAME)

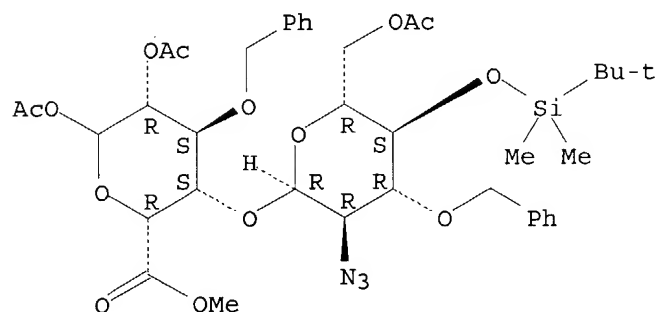
Absolute stereochemistry.



RN 444118-72-3 HCAPLUS

CN L-Idopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 1,2-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

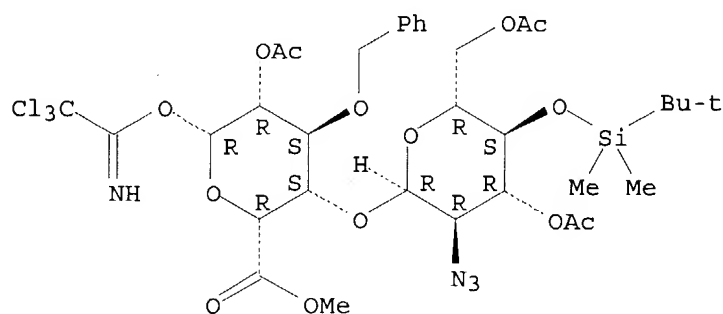


RN 444118-73-4 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate)

(9CI) (CA INDEX NAME)

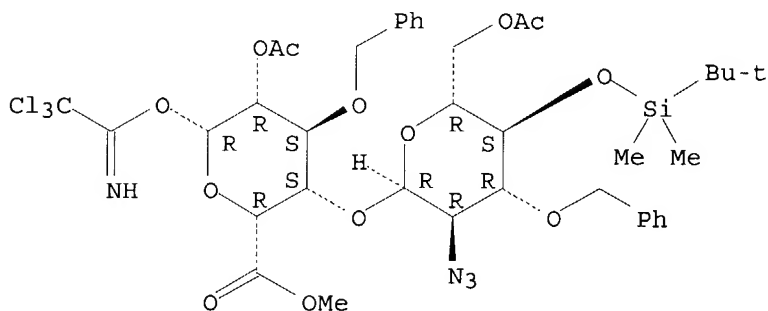
Absolute stereochemistry. Rotation (+).



RN 444118-74-5 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

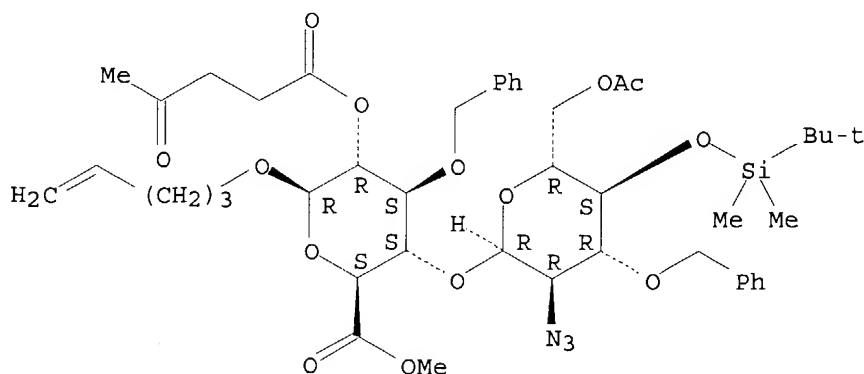
Absolute stereochemistry. Rotation (+).



RN 444118-75-6 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

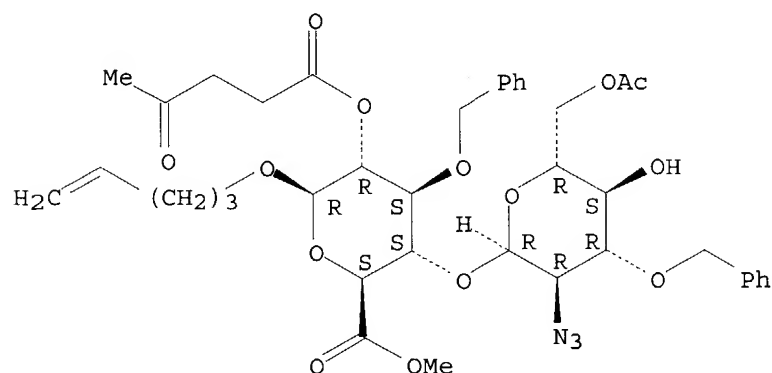
Absolute stereochemistry. Rotation (+).



RN 444118-76-7 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

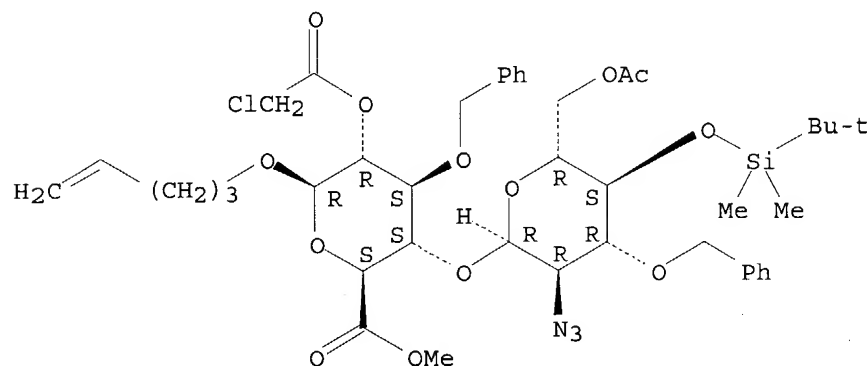
Absolute stereochemistry. Rotation (+).



RN 444118-77-8 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

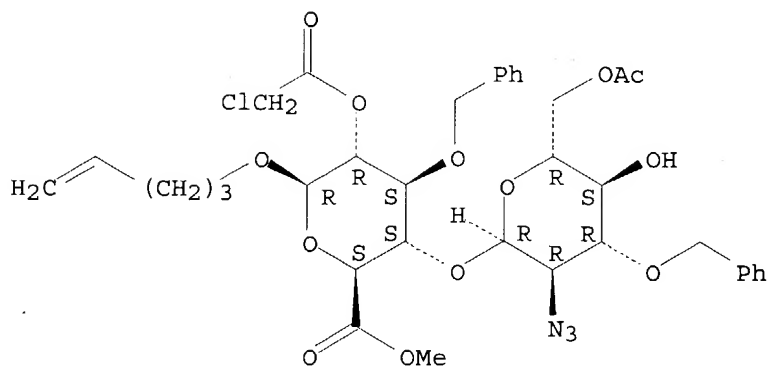
Absolute stereochemistry. Rotation (+).



RN 444118-78-9 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

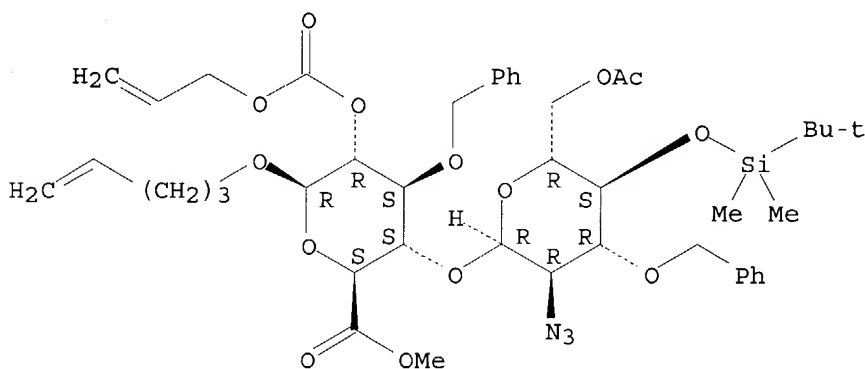
Absolute stereochemistry. Rotation (+).



RN 444118-79-0 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

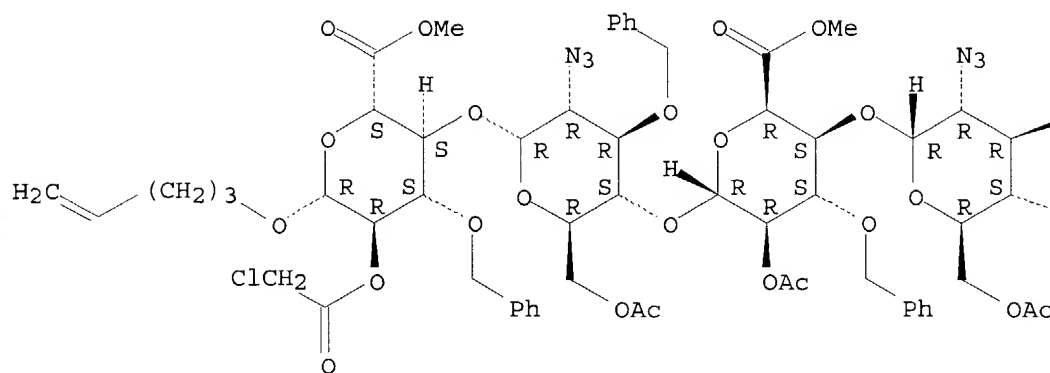


RN 444118-81-4 HCAPLUS

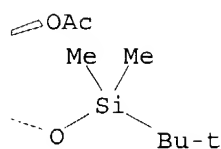
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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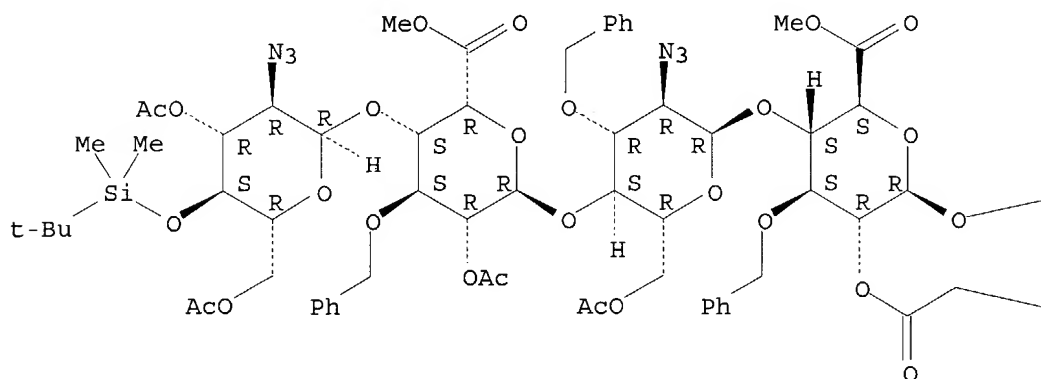


RN 444118-82-5 HCAPLUS

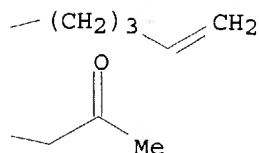
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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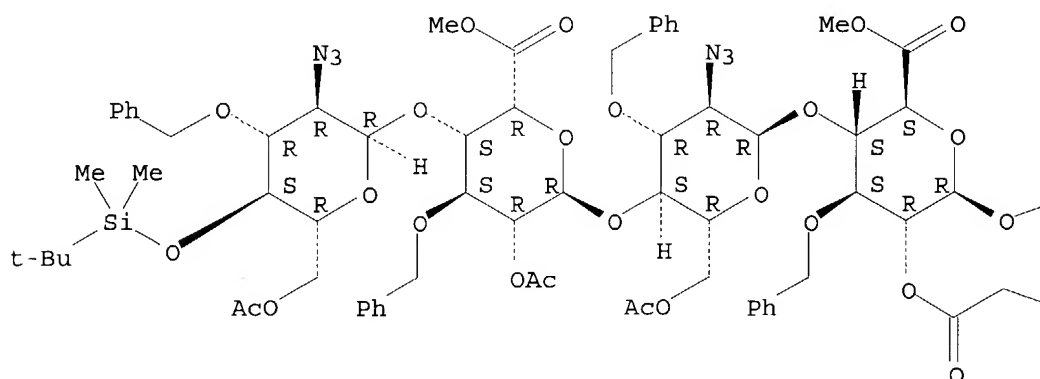


RN 444118-83-6 HCAPLUS

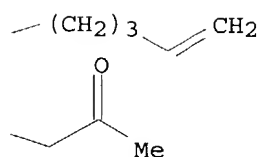
CN β-D-Glucopyranosiduronic acid, 4-pentenyl O-6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-α-D-glucopyranosyl-(1→4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)-α-L-idopyranuronosyl-(1→4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)-α-D-glucopyranosyl-(1→4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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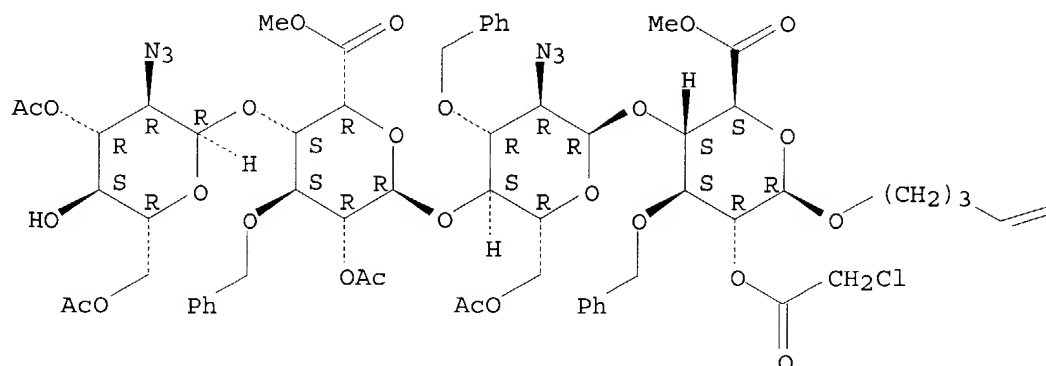


RN 444118-84-7 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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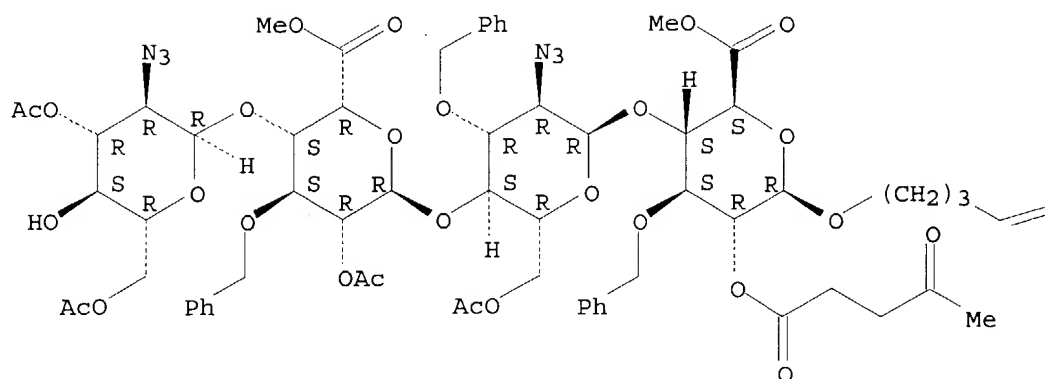
=CH₂

RN 444118-85-8 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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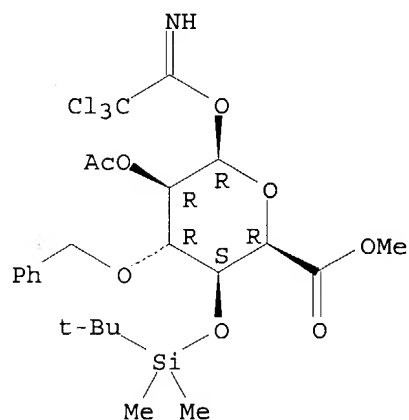
PAGE 1-B

CH₂

RN 444118-87-0 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate)
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

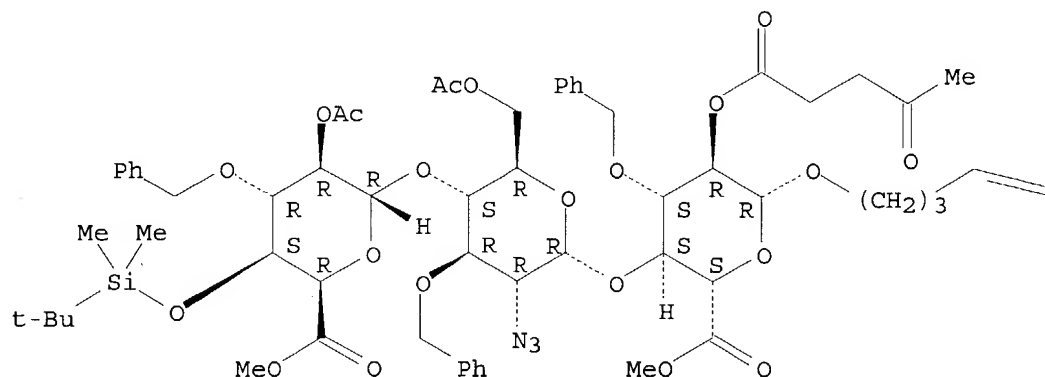


RN 444118-88-1 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-2-O-acetyl-4-O-[(1,1-dimethylethyl)dimethylsilyl]-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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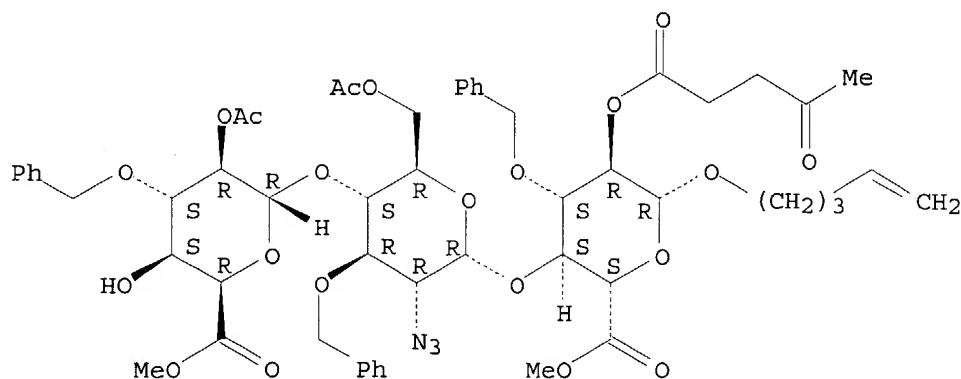
PAGE 1-B

=CH₂

RN 444118-89-2 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

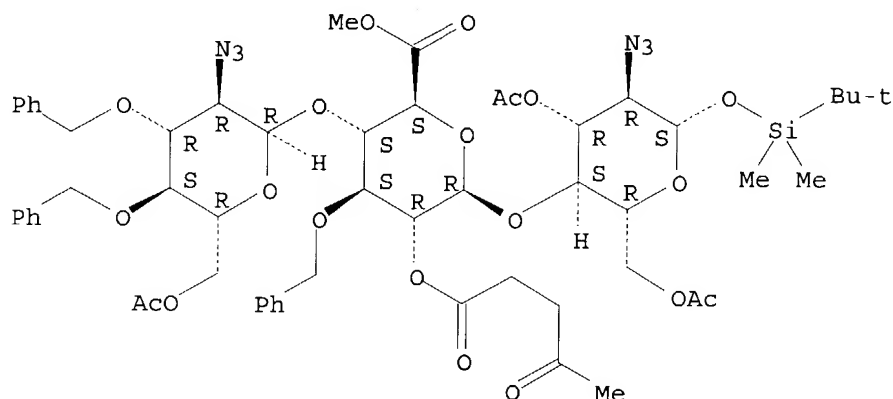


RN 444118-90-5 HCAPLUS

CN β -D-Glucopyranose, O-6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-(1,4-dioxopentyl)-6-methyl-3-O-(phenylmethyl)- β -D-glucopyranuronosyl-

(1→4)-2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate (9CI) (CA INDEX NAME)

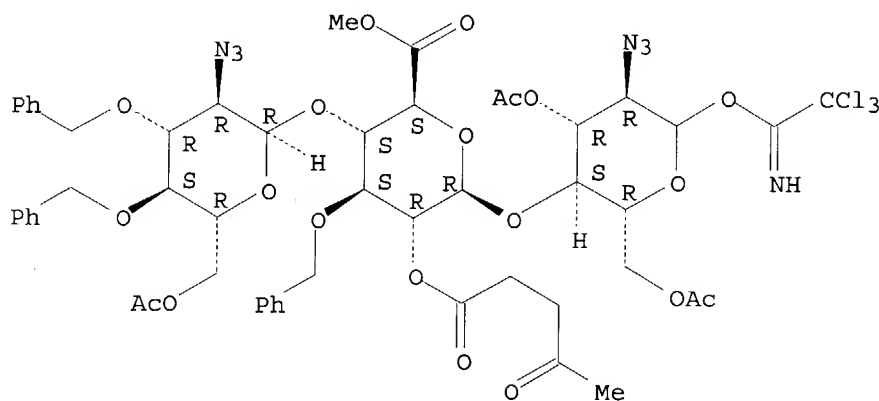
Absolute stereochemistry.



RN 444118-91-6 HCAPLUS

CN D-Glucopyranose, 0-6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl-(1→4)-O-2-O-(1,4-dioxopentyl)-6-methyl-3-O-(phenylmethyl)- β -D-glucopyranuronosyl-(1→4)-2-azido-2-deoxy-, 3,6-diacetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

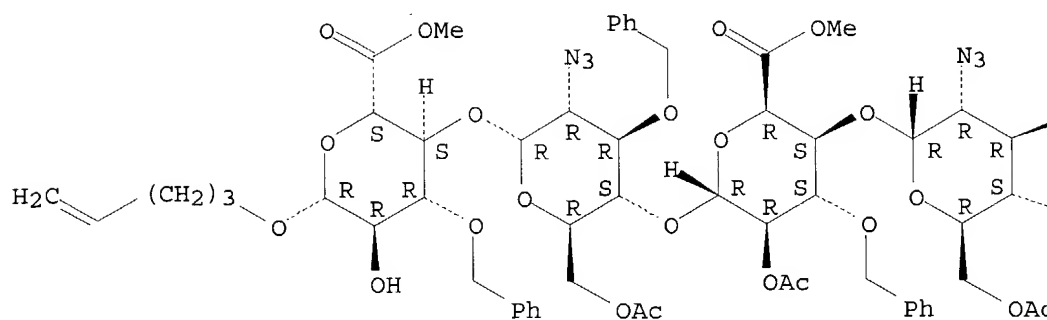


RN 444118-94-9 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,4,6-tri-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1→4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1→4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1→4)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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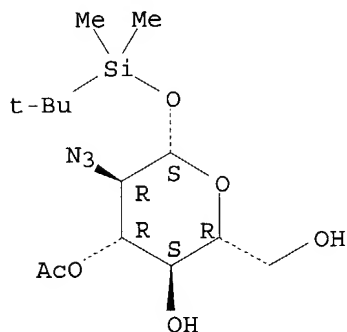
OAc

OAc

RN 444118-99-4 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3-acetate (9CI) (CA INDEX NAME)

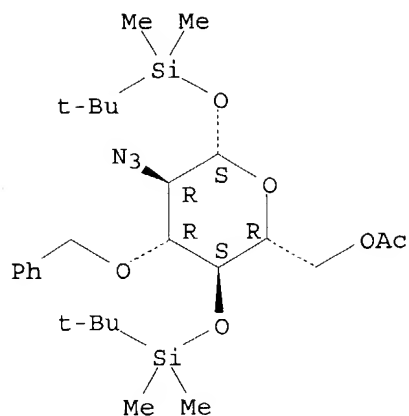
Absolute stereochemistry. Rotation (-).



RN 444119-00-0 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1,4-bis-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate (9CI) (CA INDEX NAME)

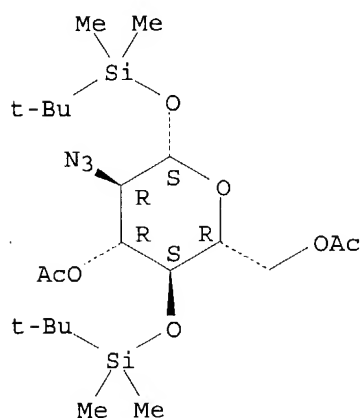
Absolute stereochemistry. Rotation (+).



RN 444119-01-1 HCAPLUS

CN β-D-Glucopyranose, 2-azido-2-deoxy-1,4-bis-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate (9CI) (CA INDEX NAME)

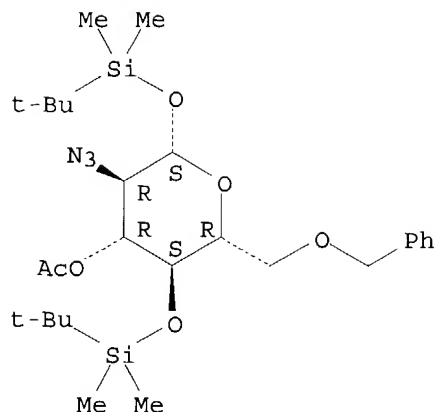
Absolute stereochemistry. Rotation (-).



RN 444119-02-2 HCAPLUS

CN β-D-Glucopyranose, 2-azido-2-deoxy-1,4-bis-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)-, 3-acetate (9CI) (CA INDEX NAME)

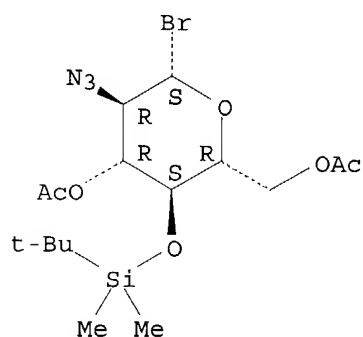
Absolute stereochemistry. Rotation (-).



RN 444119-03-3 HCAPLUS

CN β -D-Glucopyranosyl bromide, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate (9CI) (CA INDEX NAME)

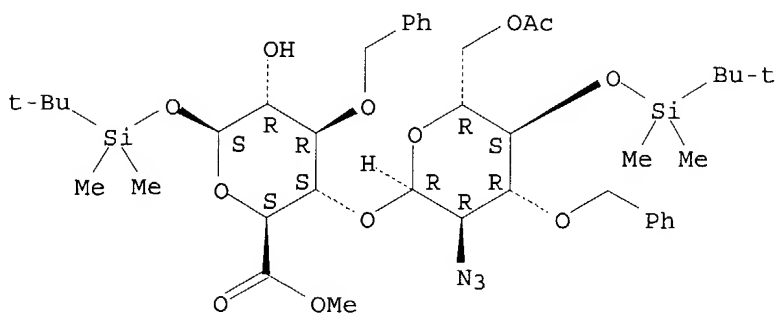
Absolute stereochemistry. Rotation (+).



RN 444119-04-4 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

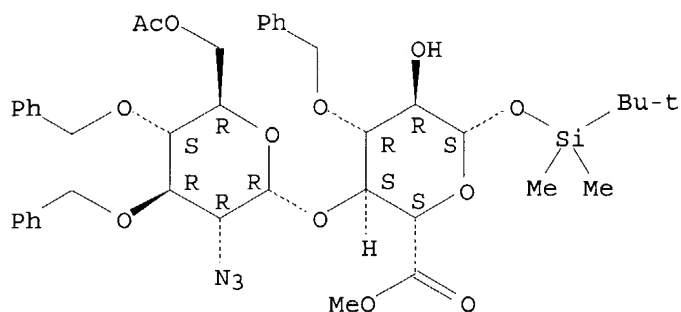
Absolute stereochemistry. Rotation (+).



RN 444119-05-5 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

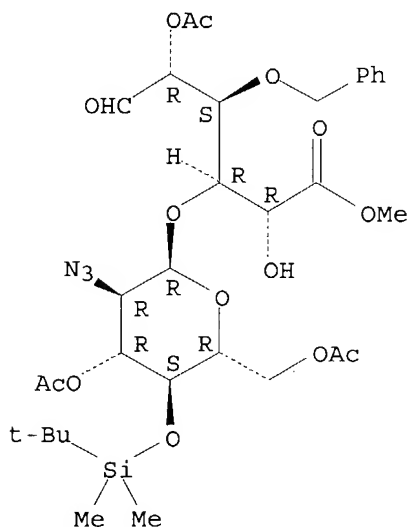
Absolute stereochemistry. Rotation (+).



RN 444119-06-6 HCAPLUS

CN L-Iduronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate (9CI) (CA INDEX NAME)

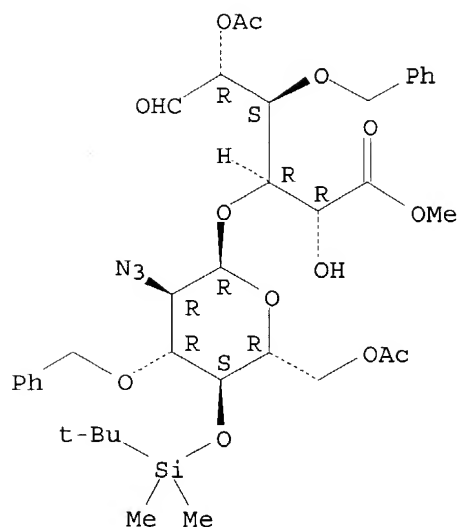
Absolute stereochemistry.



RN 444119-07-7 HCAPLUS

CN L-Iduronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate (9CI) (CA INDEX NAME)

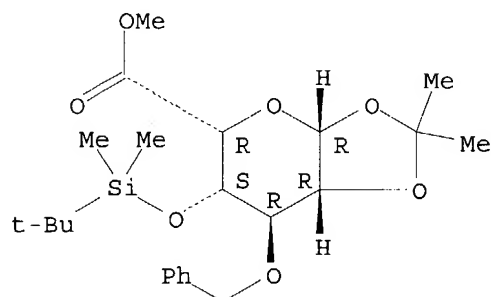
Absolute stereochemistry.



RN 444119-08-8 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

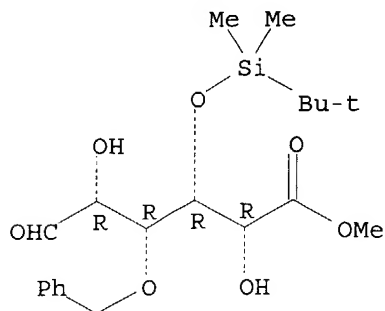
Absolute stereochemistry.



RN 444119-09-9 HCAPLUS

CN L-Iduronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

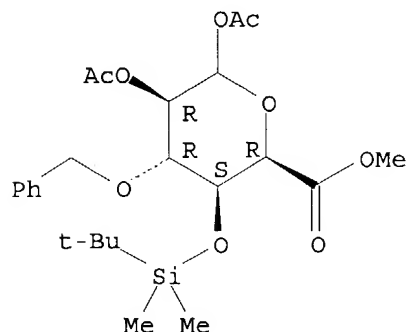
Absolute stereochemistry.



RN 444119-10-2 HCAPLUS

CN L-Idopyranuronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, diacetate (9CI) (CA INDEX NAME)

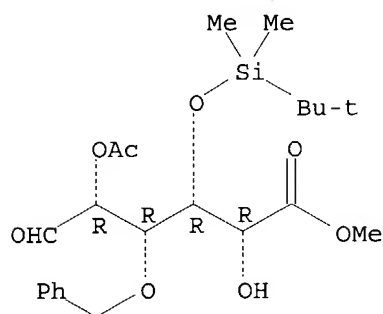
Absolute stereochemistry.



RN 444119-11-3 HCAPLUS

CN L-Iduronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

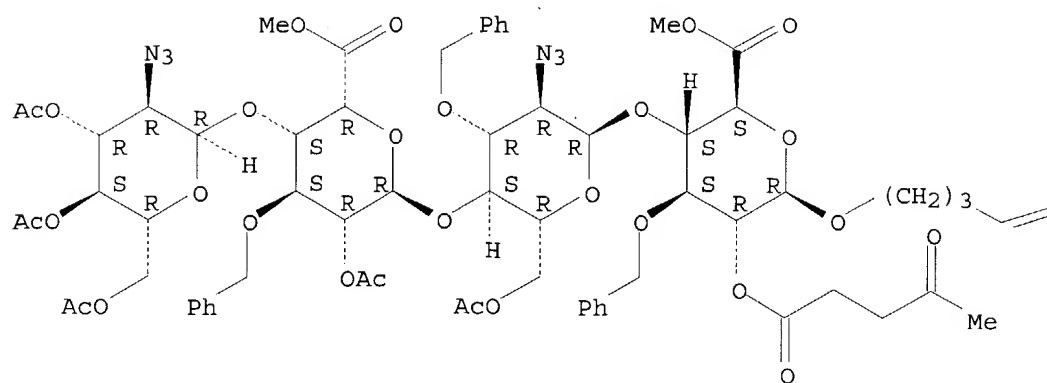


RN 444119-12-4 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,4,6-tri-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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PAGE 1-B

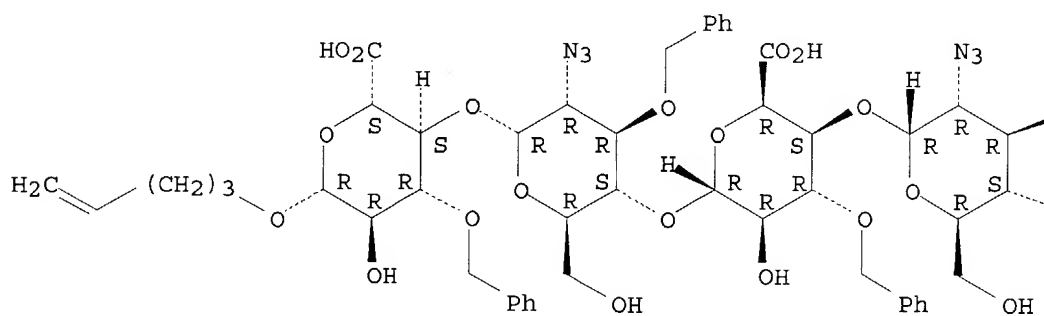
CH₂

RN 444119-13-5 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

OH

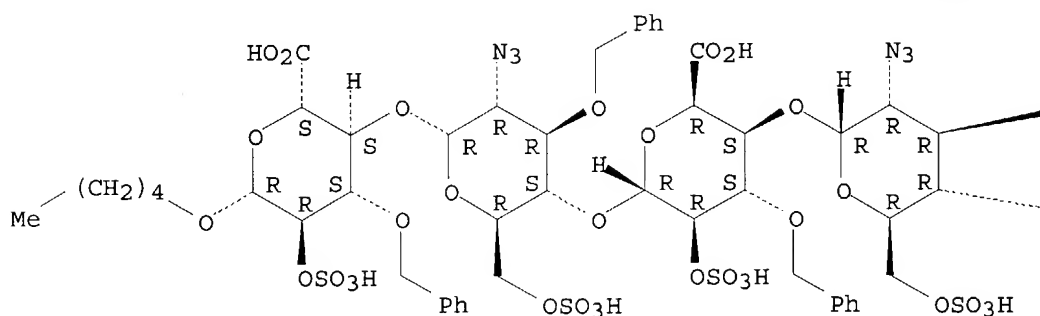
OH

RN 444119-14-6 HCAPLUS

CN β -D-Glucopyranosiduronic acid, pentyl O-2-azido-2-deoxy-3,4,6-tri-O-sulfo- α -D-glucopyranosyl-(1 \rightarrow 4)-O-3-O-(phenylmethyl)-2-O-sulfo- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-2-azido-2-deoxy-3-O-(phenylmethyl)-6-O-sulfo- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, 2-(hydrogen sulfate), octasodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● 8 Na

PAGE 1-B

OSO₃HOSO₃H

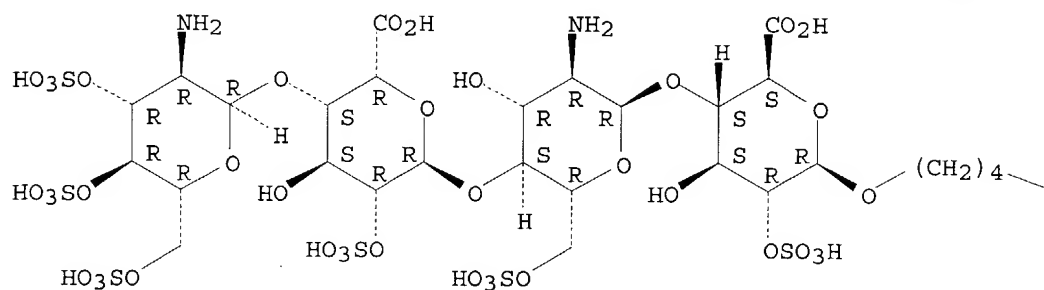
RN 444119-15-7 HCAPLUS

CN β -D-Glucopyranosiduronic acid, pentyl O-2-amino-2-deoxy-3,4,6-tri-O-sulfo- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-sulfo- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy-6-O-sulfo- α -D-

glucopyranosyl-(1→4)-, 2-(hydrogen sulfate), octasodium salt (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

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● 8 Na

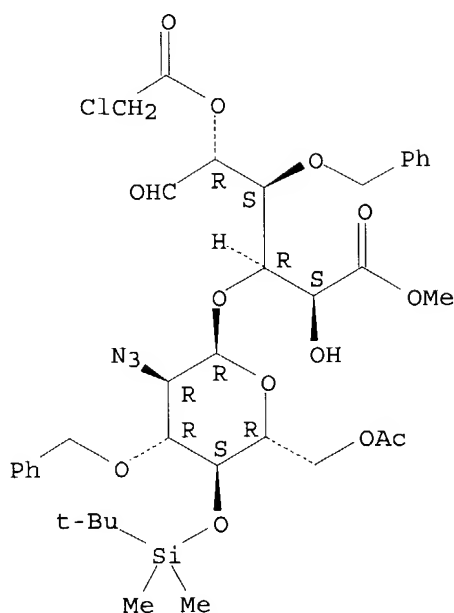
PAGE 1-B

Me

RN 444119-22-6 HCAPLUS

CN D-Glucuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

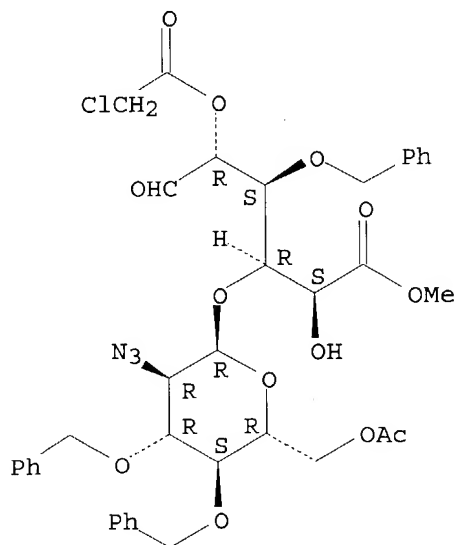
Absolute stereochemistry.



RN 444119-23-7 HCAPLUS

CN D-Glucuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

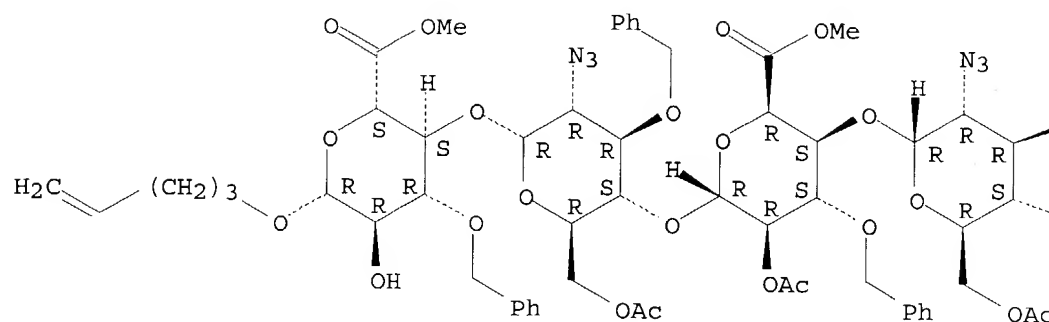


RN 444119-41-9 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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OAc

OH

IT 87326-76-9P 444118-43-8P 444118-46-1P
 444118-80-3P 444118-86-9P 444118-92-7P
 444118-93-8P 444118-95-0P 444118-96-1P
 444118-97-2P 444118-98-3P 444119-16-8P
 444119-17-9P 444119-18-0P 444119-19-1P
 444119-20-4P 444119-21-5P

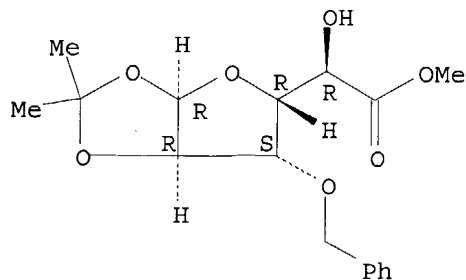
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

RN 87326-76-9 HCAPLUS

CN β -L-Idofuranuronic acid, 1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

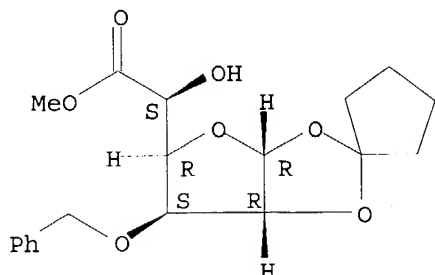
Absolute stereochemistry.



RN 444118-43-8 HCAPLUS

CN α -D-Glucofuranuronic acid, 1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

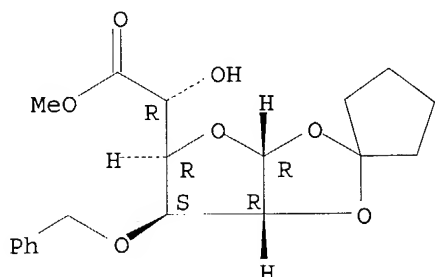
Absolute stereochemistry. Rotation (+).



RN 444118-46-1 HCAPLUS

CN β -L-Idofuranuronic acid, 1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

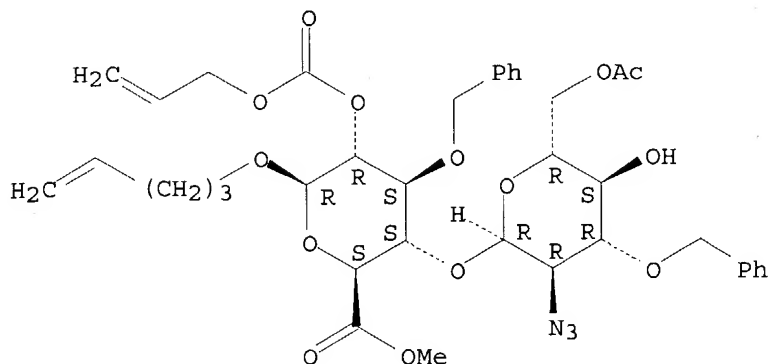
Absolute stereochemistry. Rotation (-).



RN 444118-80-3 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

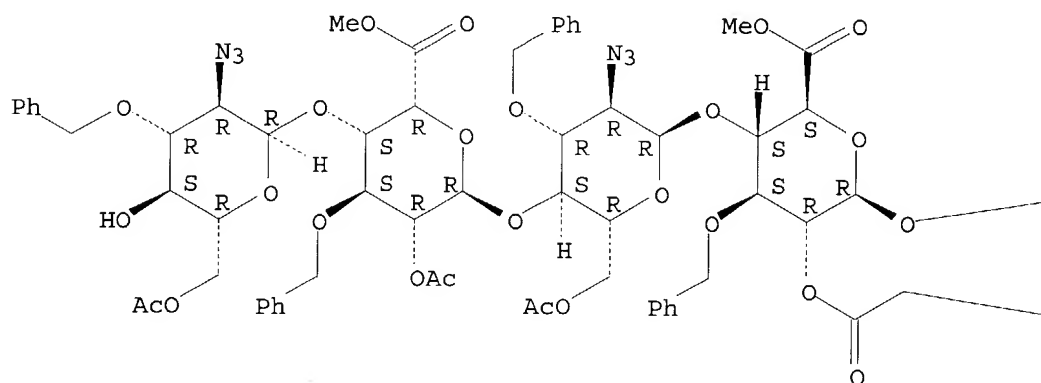


RN 444118-86-9 HCAPLUS

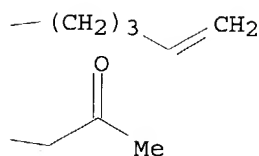
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

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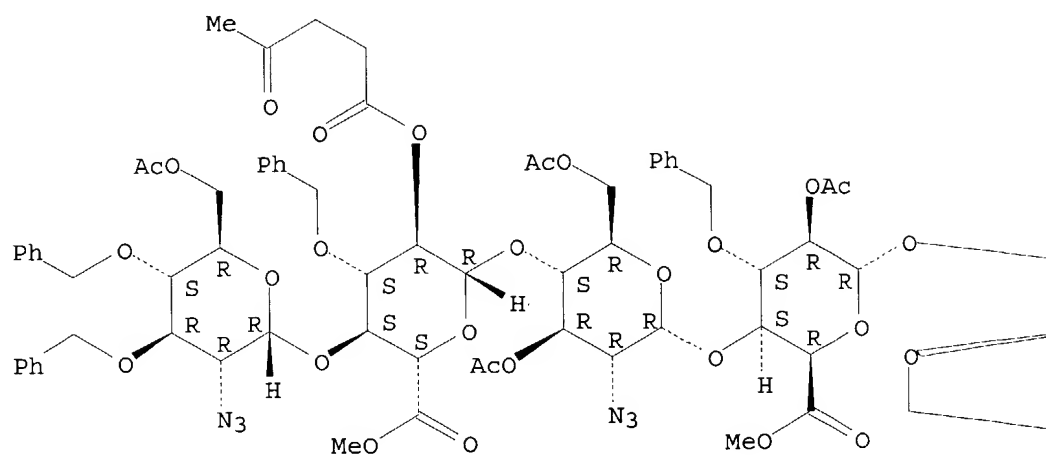


RN 444118-92-7 HCAPLUS

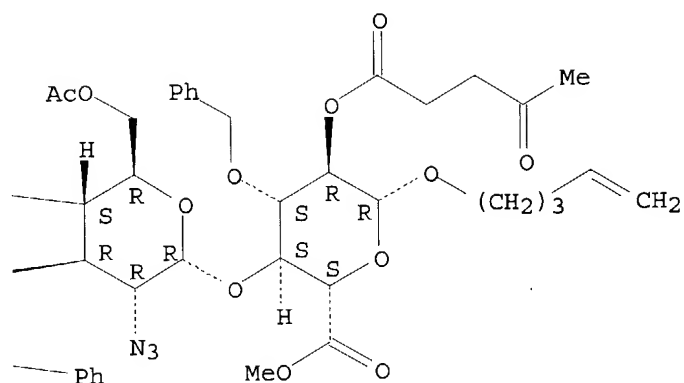
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-(1,4-dioxopentyl)-6-methyl-3-O-(phenylmethyl)- β -D-glucopyranuronosyl-(1 \rightarrow 4)-O-3,6-di-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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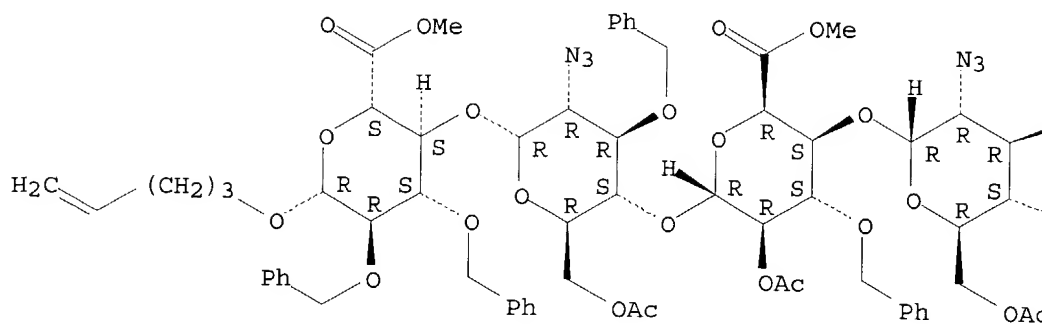
PAGE 1-B



RN 444118-93-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-2,3-bis-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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PAGE 1-B

OAc

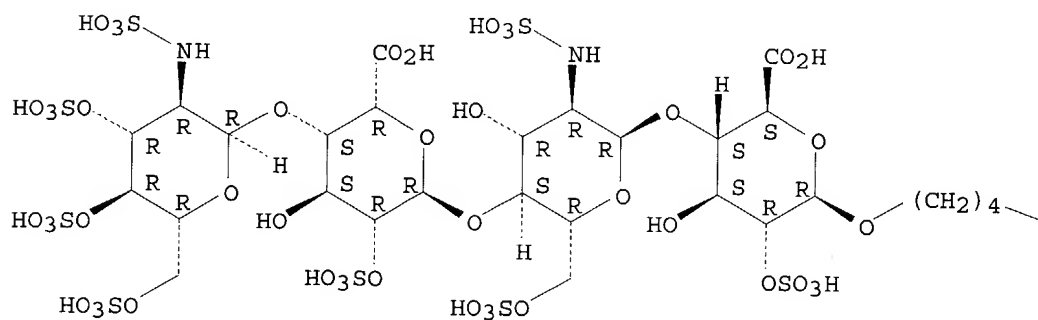
OH

RN 444118-95-0 HCAPLUS

CN β -D-Glucopyranosiduronic acid, pentyl O-2-deoxy-3,4,6-tri-O-sulfo-2-(sulfoamino)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-sulfo- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-2-deoxy-6-O-sulfo-2-(sulfoamino)- α -D-glucopyranosyl-(1 \rightarrow 4)-, 2-(hydrogen sulfate), hexasodium salt (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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● 6 Na

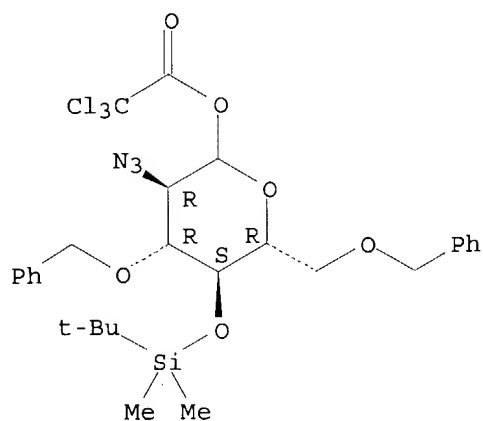
PAGE 1-B

Me

RN 444118-96-1 HCAPLUS

CN D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-
3,6-bis-O-(phenylmethyl)-, 1-(trichloroacetate) (9CI) (CA INDEX NAME)

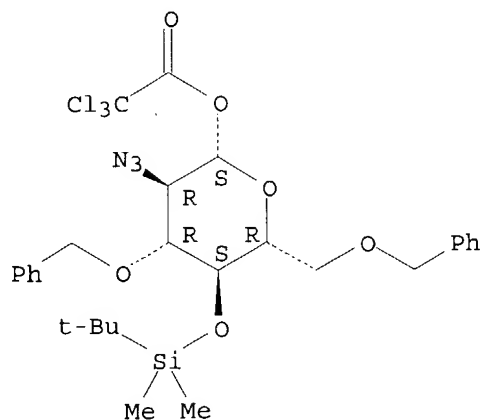
Absolute stereochemistry.



RN 444118-97-2 HCAPLUS

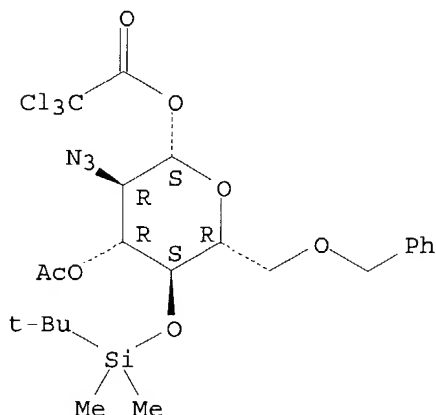
CN β-D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-
dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)-,
1-(trichloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



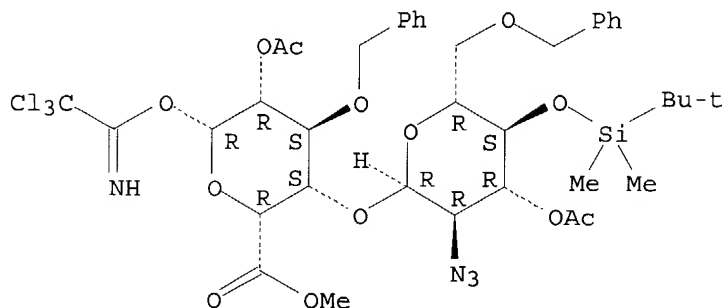
RN 444118-98-3 HCAPLUS
 CN β -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)-, 3-acetate 1-(trichloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



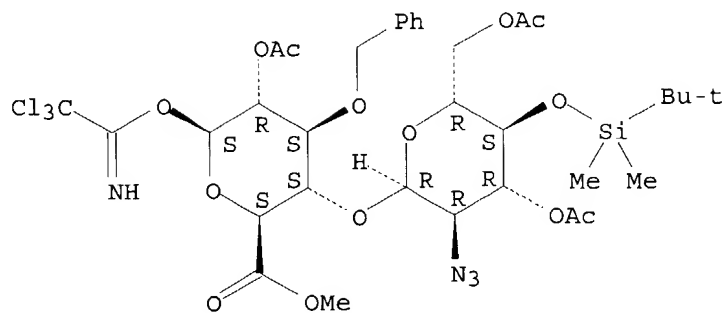
RN 444119-16-8 HCAPLUS
 CN β -L-Idopyranuronic acid, 4-O-[3-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 444119-17-9 HCAPLUS
 CN β -D-Glucopyranuronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

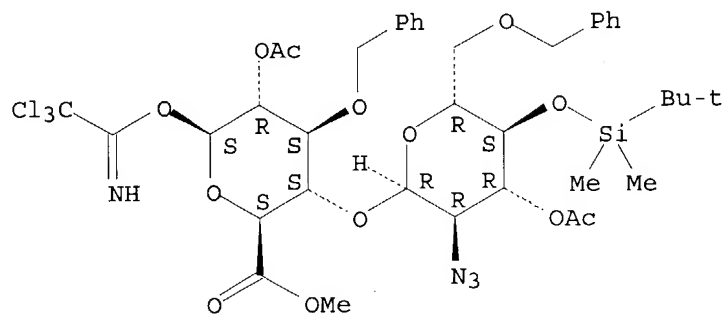
Absolute stereochemistry.



RN 444119-18-0 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[3-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

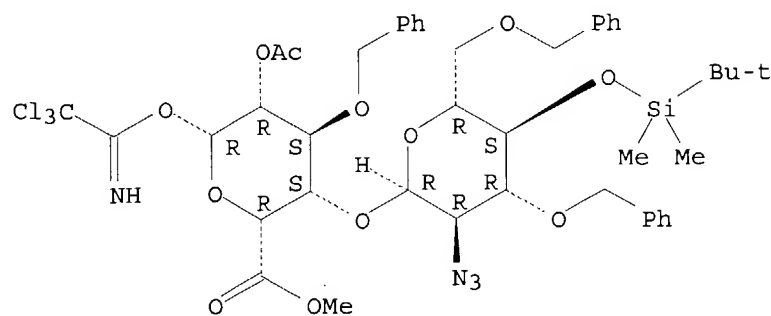
Absolute stereochemistry.



RN 444119-19-1 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

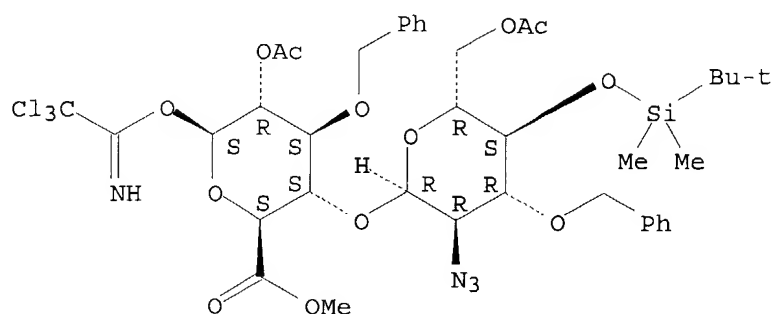


RN 444119-20-4 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

trichloroethanimidate) (9CI) (CA INDEX NAME)

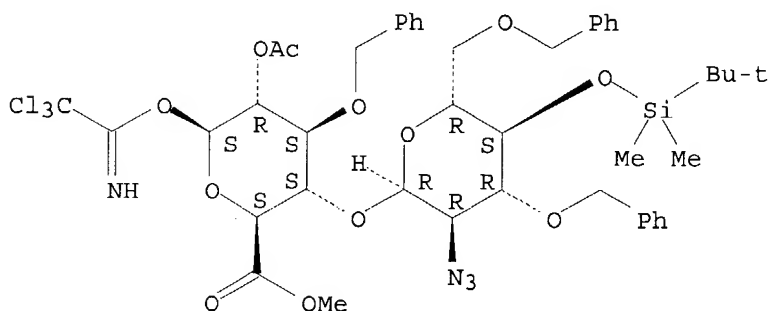
Absolute stereochemistry.



RN 444119-21-5 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

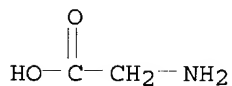


IT 56-40-6, Glycine, reactions 66-84-2, Glucosamine hydrochloride 582-52-5 171032-74-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

RN 56-40-6 HCAPLUS

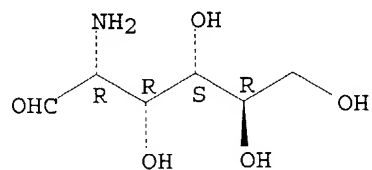
CN Glycine (8CI, 9CI) (CA INDEX NAME)



RN 66-84-2 HCAPLUS

CN D-Glucose, 2-amino-2-deoxy-, hydrochloride (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

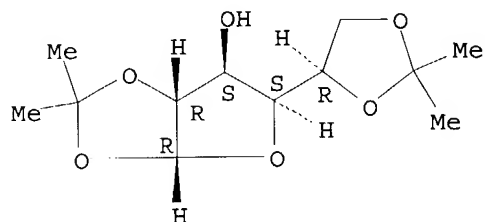


● HCl

RN 582-52-5 HCAPLUS

CN α -D-Glucofuranose, 1,2:5,6-bis-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

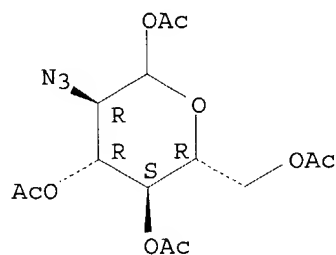
Absolute stereochemistry. Rotation (-).



RN 171032-74-9 HCAPLUS

CN D-Glucopyranose, 2-azido-2-deoxy-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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